

CW-NZ-0093

2.4GHz Internal Antenna

Key Features

Frequency: 2.4-2.5GHz

IPEX Connector

RF1.13 Cable

Dimensions: 4.4*24.5mm

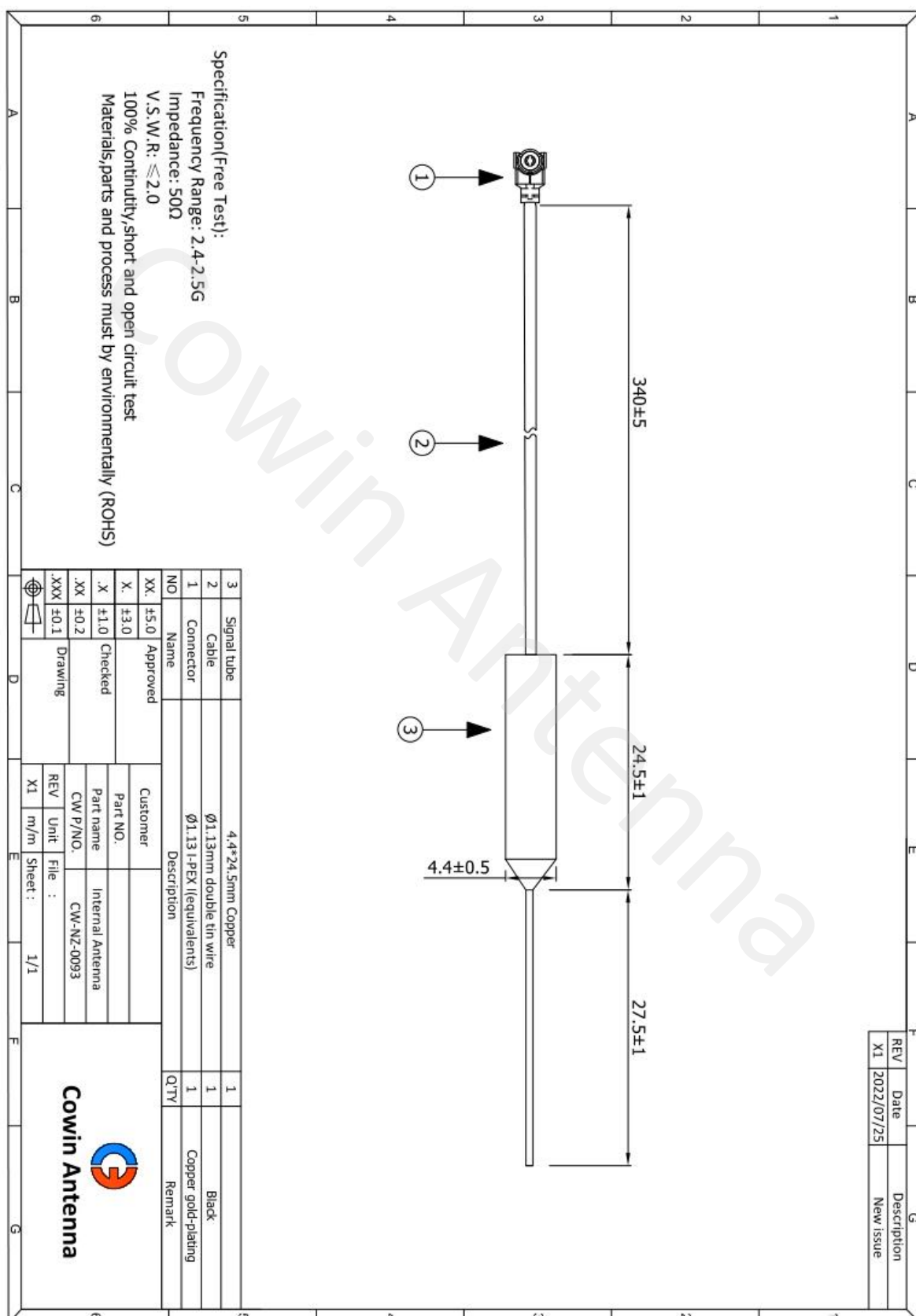


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2400-2500
VSWR	≤2.0
Efficiency (%)	70.18%
Peak Gain (dBi)	2.61
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	IPEX

2. Material and environmental characteristics

External structure	N/A
Inner structure	Connector/Cable/Signal tube
Cable Type	RF1.13
Connector Type	IPEX
Dimensions (mm)	4.4*24.5mm
Antenna color	N/A
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS



4. Antenna test parameters

Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

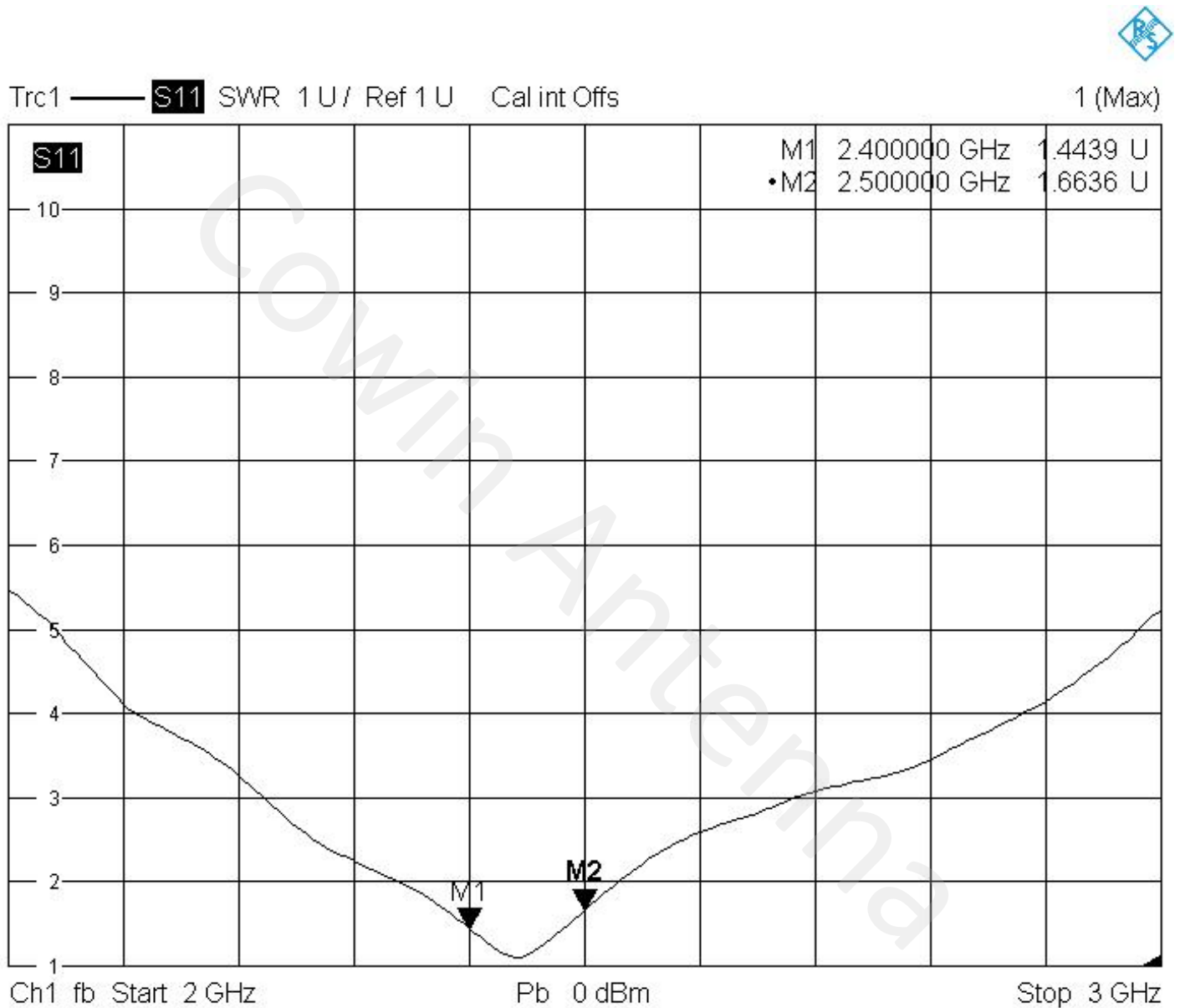
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

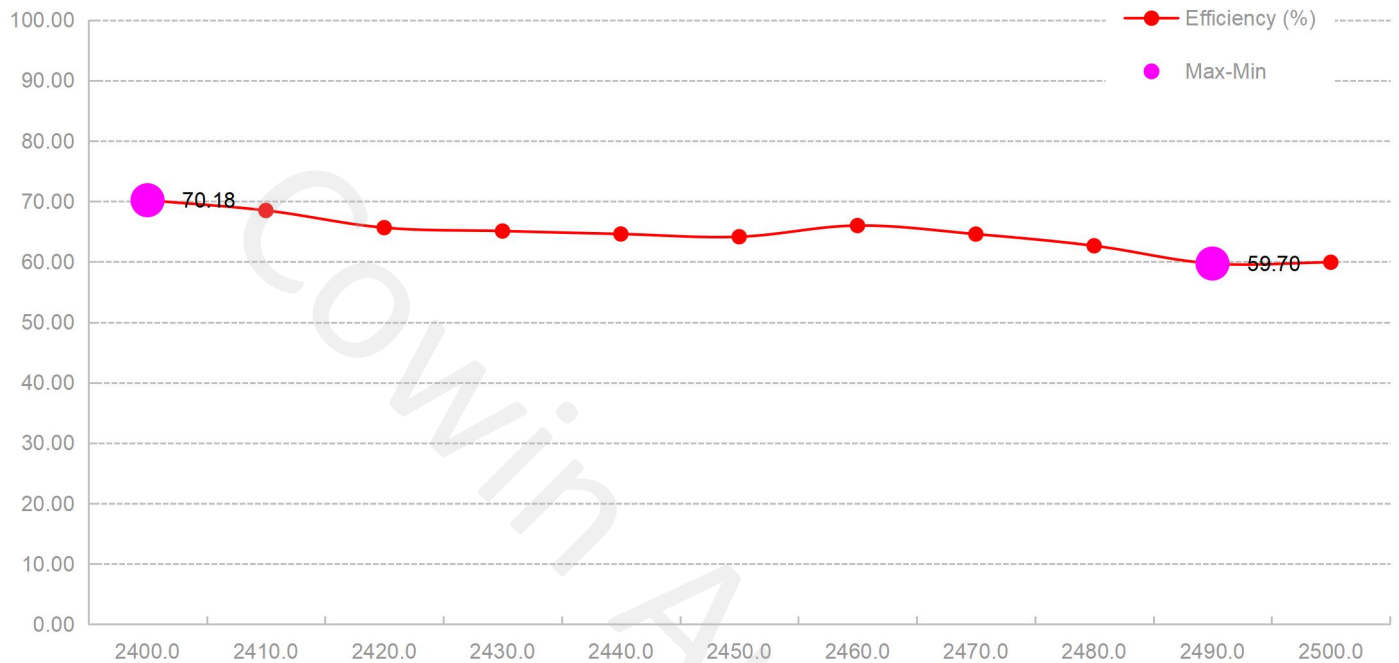
The comprehensive tester is Agilent cmv500



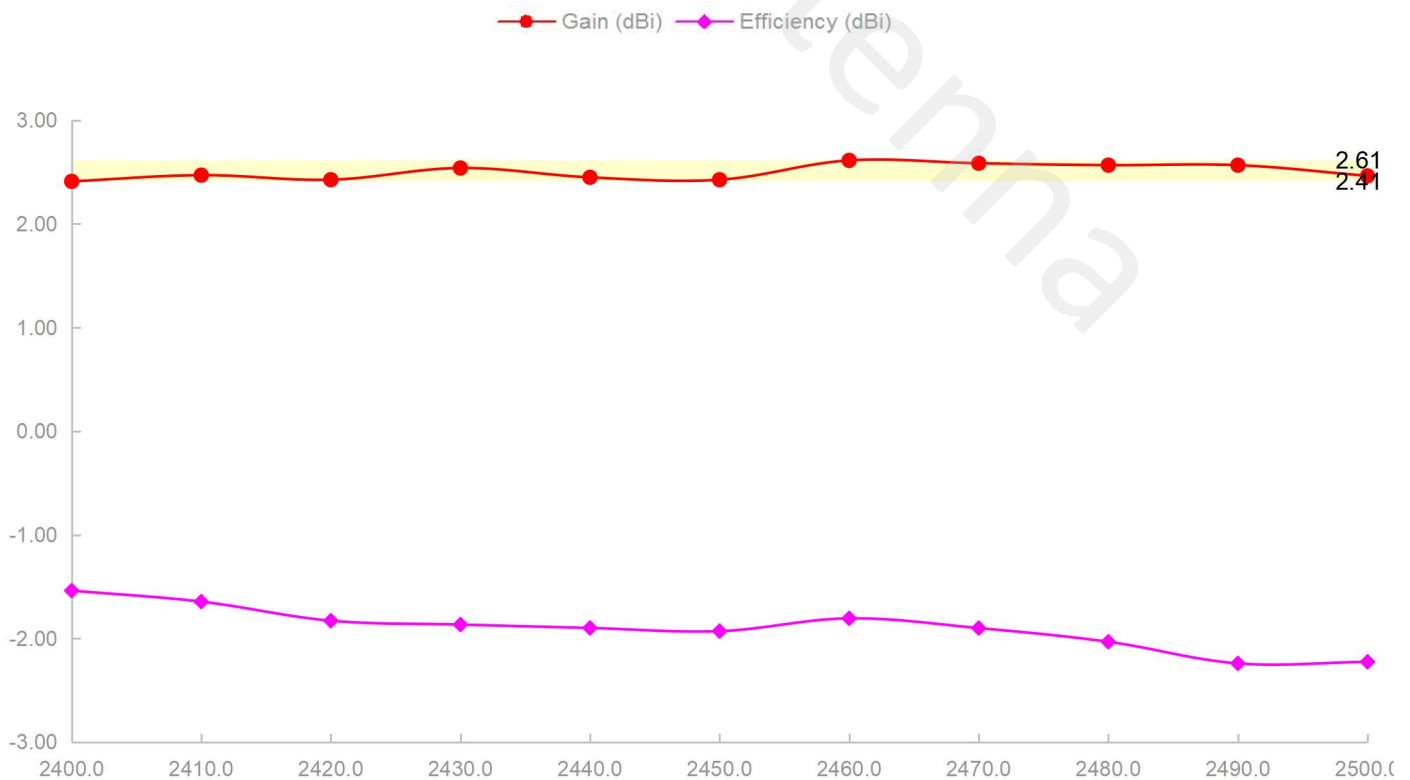
4.1 VSWR



4.2 Efficiency



4.3 Peak gain



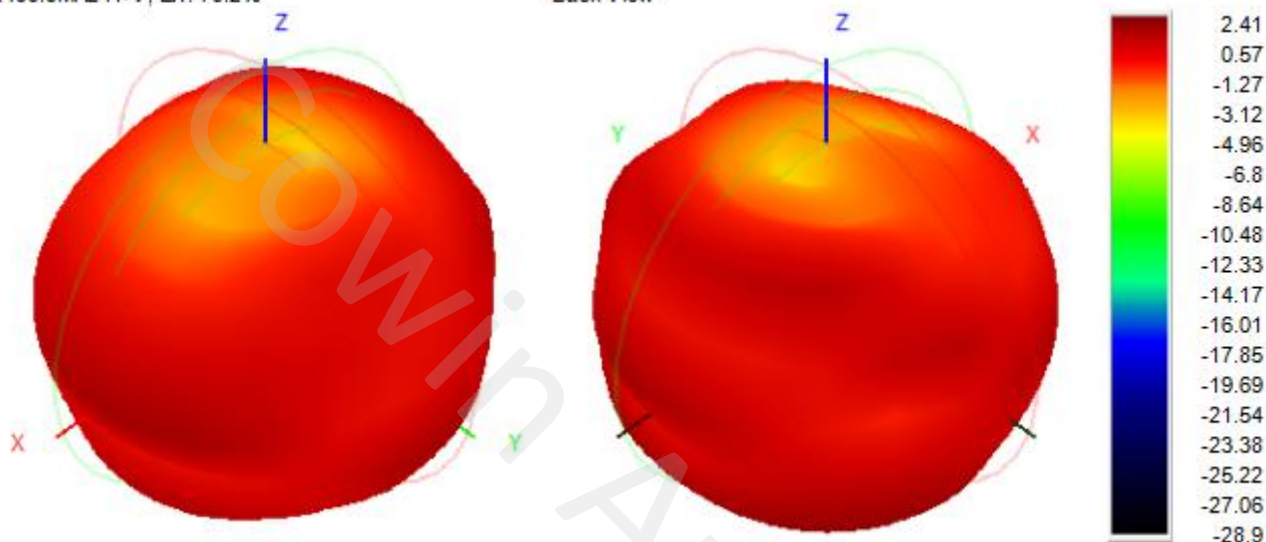
4.4 Data summary

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	2.41	70.18
2410.0	2.47	68.48
2420.0	2.43	65.64
2430.0	2.54	65.08
2440.0	2.45	64.59
2450.0	2.43	64.14
2460.0	2.61	65.98
2470.0	2.59	64.58
2480.0	2.57	62.64
2490.0	2.57	59.70
2500.0	2.46	59.91

4.5 3D&2D Radiation Patterns

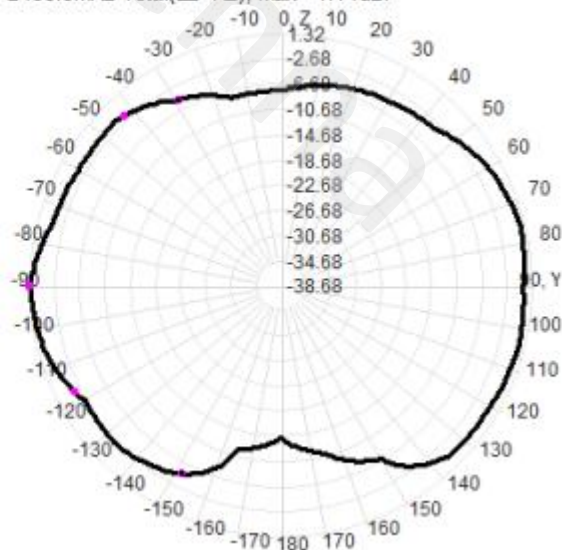
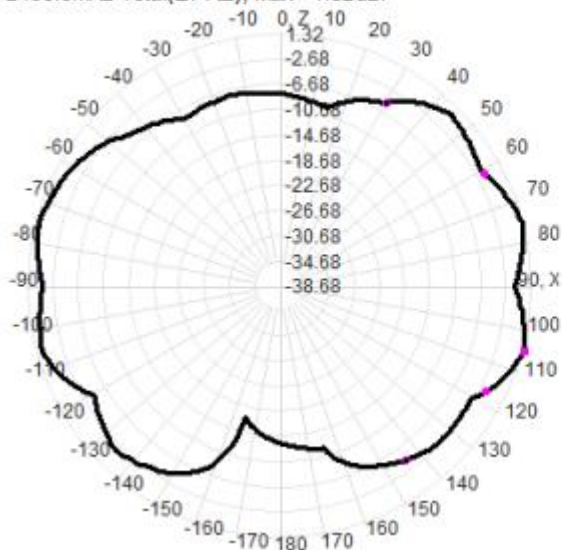
2400.0MHz H+V, Eff: 70.2%

Back View



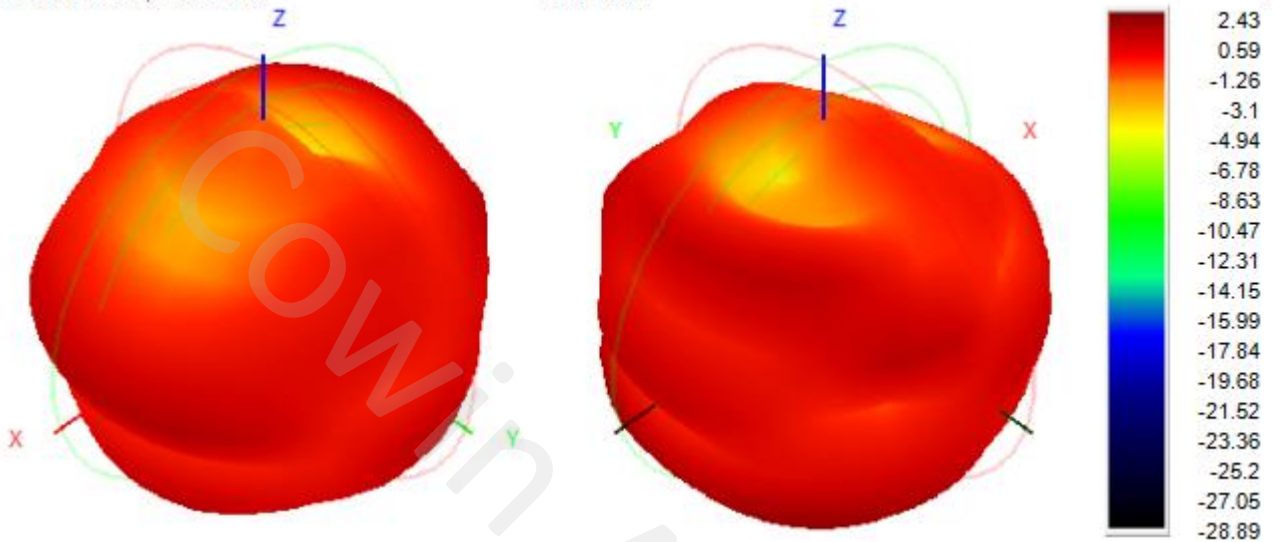
2400.0MHz Total(E1-XZ), Max= 1.32dBi

2400.0MHz Total(E2-YZ), Max= 1.14dBi



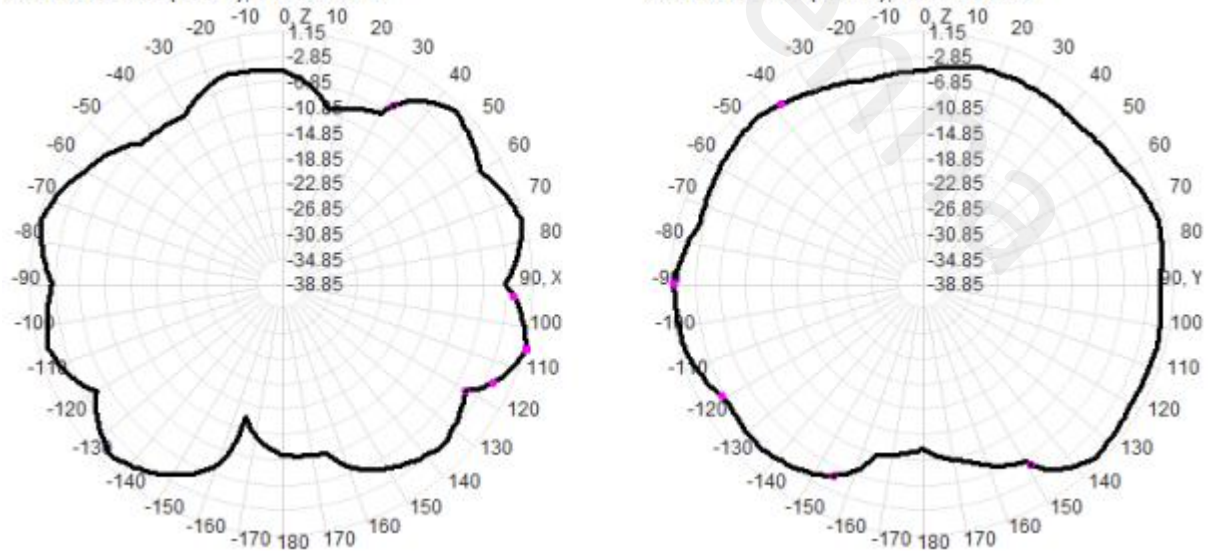
2450.0MHz H+V, Eff: 64.1%

Back View



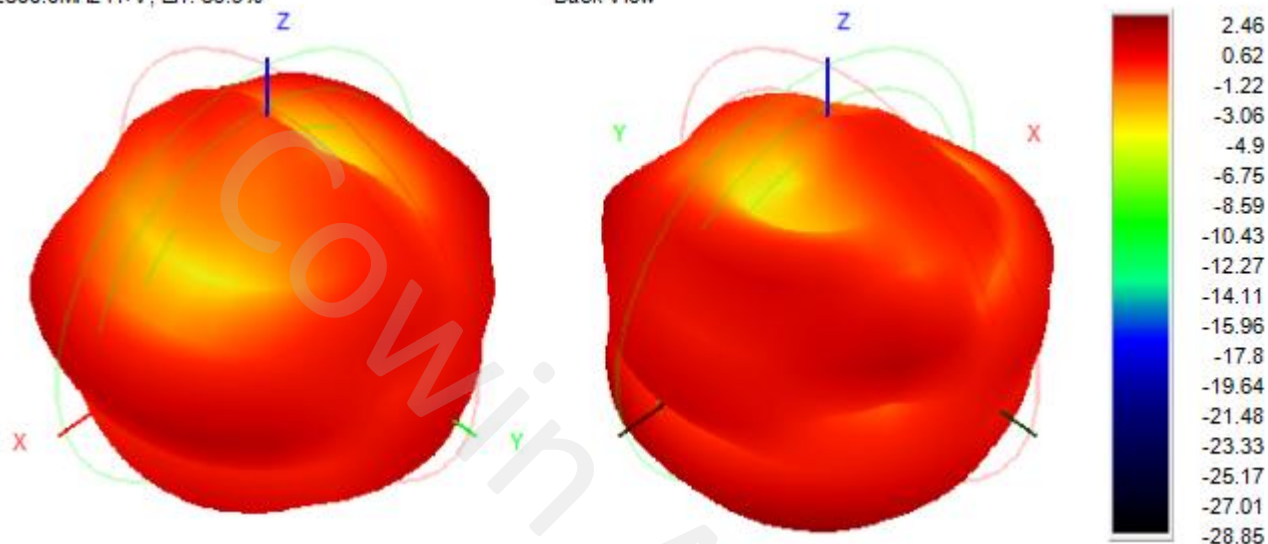
2450.0MHz Total(E1-XZ), Max= 1.15dBi

2450.0MHz Total(E2-YZ), Max= 0.52dBi

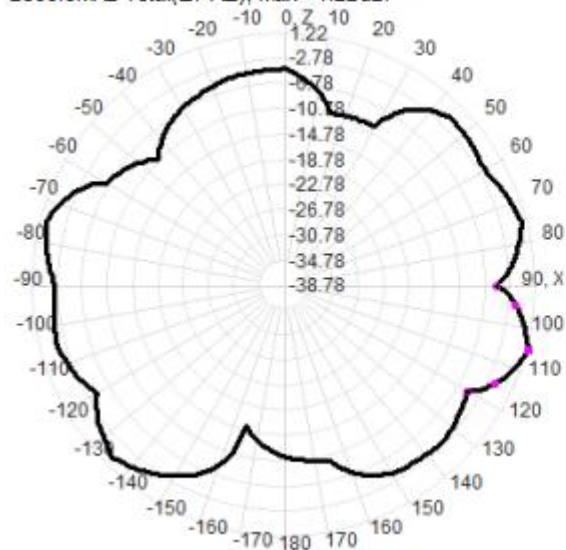


2500.0MHz H+V, Eff: 59.9%

Back View



2500.0MHz Total(E1-XZ), Max= 1.22dBi



2500.0MHz Total(E2-YZ), Max= 0.38dBi

